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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/531,862	03/21/2000	Kerry Veenstra	9818-026-999	6687	
24341	7590 03/19/2004		EXAMIN		
MORGAN, LEWIS & BOCKIUS, LLP. 3300 HILLVIEW AVENUE			WILLIAMS, LAWRENCE B		
	CA 94304		ART UNIT	PAPER NUMBER	
	•		2634		
			DATE MAILED: 03/19/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)		
Office Action Summary		09/531,8	52	VEENSTRA ET AL.		
		Examine		Art Unit		
	·		B Williams	2634		
Period f	The MAILING DATE of this communion Reply	cation appears on the	e cover sheet with th	ne correspondence address		
THE - External control	MAILING DATE OF THIS COMMUNION	CATION. of 37 CFR 1.136(a). In no evunication. of days, a reply within the state tutory period will apply and will, by statute, cause the app	ent, however, may a reply buttery minimum of thirty (30) ill expire SIX (6) MONTHS lication to become ABAND	be timely filed days will be considered timely, from the mailing date of this communication, ONED (35 U.S.C. § 133).		
Status						
1)⊠	Responsive to communication(s) filed	d on <u>08 December</u> 2	<u>003</u> .			
	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) 1-14 is/are pending in the at 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 1 and 5-13 is/are rejected. Claim(s) 2-4, 14 is/are objected to. Claim(s) are subject to restrict	e withdrawn from co				
Applicat	ion Papers					
9)	The specification is objected to by the	Examiner.				
10)	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including The oath or declaration is objected to	•	-, ,	• • • • • • • • • • • • • • • • • • • •		
Priority	under 35 U.S.C. § 119			•		
a)	Acknowledgment is made of a claim f All b) Some * c) None of: 1. Certified copies of the priority of 2. Certified copies of the priority of 3. Copies of the certified copies of application from the Internation	documents have bee documents have bee of the priority documental Bureau (PCT Rul	en received. en received in Appli ents have been rece e 17.2(a)).	cation No eived in this National Stage		
* (See the attached detailed Office action	n for a list of the cert	fied copies not rece	eived.		
Attachmer	nt(s)					
1) Notice	ce of References Cited (PTO-892)		4) Interview Summ			
3) 🔲 Infor	ce of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or F er No(s)/Mail Date		Paper No(s)/Ma 5) Notice of Inform 6) Other:	uil Date nal Patent Application (PTO-152)		

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DETAILED ACTION

Response To Amendments

1. The indicated allowability of claims 1-14 is withdrawn in view of the newly discovered reference(s), US Patent 6, 252, 219 B1). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 5-13 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Sung et al. (US Patent 6, 252, 219 B1)
- (1) With regard to claim 1, Sung et al. discloses in Figs, 2A and 4, a signal routing apparatus (30) comprising; a register bank (48) to store a set of data signals (400); a delay locked loop (16) to generate a set of phase displaced clock signals (col. 7, lines 45-61); a phase controlled read circuit (42) to sequentially route the set of data signals from the register bank in response to the phase displaced clock signals; and a Low Voltage Differential Signaling buffer (44) connected to the phase controlled read circuit to transmit the data signals in a Low Voltage Differential Signaling mode (col. 9, lines 3-66).

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(2) With regard to claim 5, Sung et al. also discloses in Fig. 5, the signal routing 2apparatus in combination with a programmable logic device ((10), col. 10, lines 21-30).

- (3) With regard to claim 6, Sung et al. also discloses in Fig. 5, wherein the programmable logic device (10) is connected to a system bus ((505), col. 10, lines 21-30).
- (4) With regard to claim 7, Sung et al. also discloses in Fig. 5, wherein memory (502) is connected to the system bus (col. 10, lines 21-30).
- (5) With regard to claim 8, Sung et al. also discloses in Fig. 5, wherein a processor (501) is connected to the system bus (col. 10, lines 21-30).
- (6) With regard to claim 9, Sung et al. also discloses in Fig. 5, wherein input/output circuitry (503) is connected to the system bus (col. 10, lines 21-30).
- (7) With regard to claim 10, Sung et al. also discloses in Fig. 5, wherein a peripheral device (504) is connected to the system bus (col. 10, lines 21-30).
- (8) With regard to claim 11, claim 11 inherits the limitations of claim 1, since claim 11 merely discloses the method of the apparatus disclosed in claim 1.
- (9) With regard to claim 12, claim 12 inherits the limitations of claim 11. Furthermore, Sung et al. also discloses in Fig. 4, wherein the storing step includes the step of storing the set of data signals in a register bank (48).
- (10) With regard to claim 13, Sung et al. also discloses in Fig. 4, wherein the generating step includes the step of generating the set of displaced clock signals with a delay locked loop (col. 7, lines 45-61).

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Allowable Subject Matter

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4. Claims 2-4 and 14 are objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Lawrence B Williams whose telephone number is 703-305-6969.

The examiner can normally be reached on Monday-Friday (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stephen Chin can be reached on 703-305-4714. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lawrence B. Williams

lbw

March 10, 2004

STEPHEN CHIN SUPERVISORY PATENT EXAMINE

TECHNOLOGY CENTER 2600